
ABBREVIATION

NPs	Nanoparticles
AgNPs	Silver nanoparticle
CuNPs	Copper nanoparticles
c-AgNPs	Curcumin functionalized silver nanoparticles
Ag-Cu BNPs	Silver-Copper bimetallic nanoparticles
Cu@Ag NPs	Copper core silver shell nanoparticles
Ag@Cu NPs	Silver core copper shell nanoparticles
GO	Graphene oxide
rGO	Reduced graphene oxide
Ag/rGO	Silver/reduced graphene oxide composite
Cu/rGO	Copper/reduced graphene oxide composite
Ag-Cu/rGO	Silver-Copper/reduced graphene oxide composite bimetallic nanoparticles
PVP	Polyvinylpyrrolidone
EG	Ethylene glycol
Gly	Glycerol
NaBH₄	Sodium borohydride
NaOH	Sodium hydroxide
HCl	Hydrochloric acid
LSPR	Localized surface plasmon resonance
BH₄⁻	Borohydride ion

Nip	<i>p</i> -nitrophenol
AP	<i>p</i> -aminophenol
MO	Methyl orange
t	time
t_0	zero time
A_t	Absorbance at time t
A_0	Absorbance at time t_0
t_{ind}	Induction time
k_{app}	Apparent reaction rate constant
n	order of reaction
TOF	Turn over frequency (min^{-1})
PTOF	Photocatalytic turn over frequency (min^{-1})
E_a	Activation energy (kJ mol^{-1})
T	Temperature
H₂O₂	Hydrogen Peroxide
UV-vis	Ultra violet visible Spectroscopy
XRD	X ray diffractometer
FWHM	Full width half maximum
FT-IR	Fourier transforms infrared spectroscopy
TEM	Transmission electron microscopy
SEM	Vibrating sample magnetometer
EDS	Energy Dispersive X-ray Spectrometry